



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/589,018	08/10/2006	Shinichi Nishida	1248-0890PUS1	4192

2292 7590 11/17/2010  
BIRCH STEWART KOLASCH & BIRCH  
PO BOX 747  
FALLS CHURCH, VA 22040-0747

EXAMINER
----------

TRAN, TRANG U

ART UNIT	PAPER NUMBER
----------	--------------

2422

NOTIFICATION DATE	DELIVERY MODE
-------------------	---------------

11/17/2010

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/589,018	<b>Applicant(s)</b> NISHIDA ET AL.	
	<b>Examiner</b> Trang U. Tran	<b>Art Unit</b> 2422	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 02 September 2010.
- 2a) ☒ This action is **FINAL**.                      2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on August 10, 2006 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                    | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)         | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                          |

## **DETAILED ACTION**

### ***Response to Arguments***

1. Applicant's arguments filed September 02, 2010 have been fully considered but they are not persuasive.

In re page 9, applicants respectfully ask the Examiner to indicate the acceptance of the drawings in the next Office Action.

In response, the drawings are acceptable and have been recorded.

In re pages 9-10, applicants respectfully request the Examiner to provide documentary evidence for all features the Examiner relies on for Official Notice (i.e., features of dependent claims 3 and 10).

In response, the capability of comparing the level of the jamming signal with a plurality of predetermined signal is old, well known in the art, and is disclosed in Zakrzewski et al (US 2009/0040367, paragraph #0011) and Sano (US 2005/0059350, paragraph #0081).

In re pages 11-12, applicants argue that the examiner broad interpretation of a determined received signal strength (from a received video signal) as the claimed "jamming signal" is improper and not valid in the intended scope of the meaning of "broad interpretation".

In response, the examiner respectfully disagrees. Gangitano discloses in col. 4, lines 27-36 that "In order to provide a user with a visual indication of why a video signal has suddenly frozen on the screen, the present invention provides that bar graph 24 (or another visual indicator) will be automatically displayed on TV 20 whenever the received

Art Unit: 2422

signal strength has fallen below an acceptable level. The acceptable level for viewing may be preset or may be later programmed by a user. Generally, however, the signal level at which the bar graph 24 will be automatically displayed will be the same level at which the video image will freeze". It is noted the signal strength, when it has fallen below an acceptable level, indicates the frozen of the video signal on the screen. Thus, the signal strength is considered to be jamming signal because it freezes the video screen when it is below the acceptable level.

In re pages 12-13, applicants argue that Gangitano fails to explicitly disclose "detecting...a jamming signal other than the video signal" because the received signal strength is not a different signal than the received video signal (instead it is determined based on the received video signal).

In response, the examiner respectfully disagrees. Gangitano discloses in col. 3, lines 9-19 that "As illustrated in FIG. 4, receiver 14 may include a signal strength detector 22. Signal strength detector 22 is configured to sample the received signal presented from antenna 12 and determine a relative signal strength. Techniques for computing a signal strength are well known in the art and typically involve the computation of a time averaged measure of the magnitude of the received signal. In other embodiments, the signal strength detector 22 may be part of LNB 16 or may comprise a stand along unit. Signal strength detector 22 generates a signal indicative of the relative strength of the received signal for later use". From the above passage, it is clear the signal strength is not the received video signal. It may be calculated or derived

Art Unit: 2422

from the received video signal but it is not the received video signal. Thus, the Gangitano does disclose the claimed "jamming signal".

***Claim Rejections – 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

3. Claims 1-2 and 18-22 are rejected under 35 U.S.C. 102(e) as being anticipate by Gangitano (US Patent No. 6,580,452 B1).

In considering claim 1, Gangitano discloses all the claimed subject matter, note 1) the claimed a wireless receiving unit receiving the video signal that is wirelessly transmitted is met by the antenna 12 (Figs. 3-4, col. 2, line 38 to col. 3, line 20), 2) the claimed a display unit displaying an image in accordance with at least the video signal is met by the TV 20 (Figs. 3-4, col. 2, line 38 to col. 3, line 20), 3) the claimed a jamming signal detecting unit detecting, in an operating frequency band used for the wireless communication, a jamming signal other than the video signal is met by the signal strength detector 22 which detects the signal strength falls bellows an acceptable level (Figs. 3-7, col. 3, line 20 to col. 5, line 46), and 4) the claimed a display controller causing the display unit to display, in response to the detection of the jamming signal, jamming signal information indicating presence of the jamming signal is met by the bar

Art Unit: 2422

graph 24 which will be automatically displayed whenever the received signal strength falls below an acceptable level (Figs. 3-7, col. 3, line 20 to col. 5, line 46).

In considering claim 2, the claimed wherein: the jamming signal detecting unit detects the jamming signal for each communication channel available in the operating frequency band; and the display controller causes the display unit to display, as the jamming signal information, information indicating the presence of the jamming signal for said each communication channel is met by the bar graph 24 which will be automatically displayed whenever the received signal strength falls below an acceptable level (Figs. 3-7, col. 3, line 20 to col. 5, line 46).

Claim 18 is rejected for the same reason as discussed in claim 1 above.

In considering claim 19, the claimed wherein: the jamming signal information outputting unit sends the jamming signal information to superimposition display unit for displaying the jamming signal information superimposed onto the image displayed by the display unit is met by the OSD block 32 which is the bar graph or the text message may be superimposed over the frozen video image using video mixing technique (Figs. 3-7, col. 4, line 7 to col. 5, line 46).

Claim 20 is rejected for the same reason as discussed in claim 1 above.

In considering claim 21, Gangitano discloses all the claimed subject matter, note 1) the claimed a first step of determining whether or not the video signal that is wirelessly transmitted is unable to be received is met by when the received signal strength falls below an acceptable level, the video image will be freeze (Figs. 6-7, col. 4, line 7 to col. 5, line 46), 2) the claimed a second step of, when it is determined in the

Art Unit: 2422

first step that the video signal is unable to be received, determining whether or not a signal other than the video signal is detected in an operating frequency band used for the wireless communication is met by the bar graph 24 which will be automatically displayed whenever the received signal strength falls belows an acceptable level (Figs. 3-7, col. 4, line 7 to col. 5, line 46), and 3) the claimed a third step of carrying out a display in accordance with a result of the determination made in the second step, so as to inform that it is not possible to receive any signal is met by the text message 26 which is display when the receiver 14 no longer detects any signals arriving from antenna 12 (Figs. 6c-7, col. 4, line 7 to col. 5, line 46).

Claim 22 is rejected for the same reason as discussed in claim 21 above.

***Claim Rejections - 35 USC § 103***

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 3-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gangitano (US Patent No. 6,580,452 B1).

In considering claim 3, Gangitano discloses all the claimed subject matter, note 1) the claimed wherein: the jamming signal detecting unit compares a level of the jamming signal with a predetermined level so as to detect a jamming signal level; and the display controller causes the display unit to display the jamming signal information in accordance with the jamming signal level communication is met by the bar graph 24

Art Unit: 2422

which will be automatically displayed whenever the received signal strength falls below an acceptable level (Figs. 3-7, col. 4, line 7 to col. 5, line 46). However, Gangitano explicitly does not disclose the claimed the jamming signal detecting unit compares a level of the jamming signal with a plurality of predetermined levels. The capability using of the jamming signal detecting unit compares a level of the jamming signal with a plurality of predetermined levels is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of the jamming signal detecting unit compares a level of the jamming signal with a plurality of predetermined levels into Gangitano's system in order to accurately detecting a received signal strength of a signal received at an antenna.

In considering claim 4, the claimed wherein: the display controller causes the display unit to display the jamming signal information numerically in accordance with the jamming signal level is met by the bar graph 24 may be replaced by a display showing a number (col. 3, lines 40-52 of Gangitano).

In considering claim 5, the claimed wherein: the display controller causes the display unit to display the jamming signal information graphically in accordance with the jamming signal level is met by the bar graph 24 (col. 3, lines 9-52 of Gangitano).

In considering claim 6, the claimed wherein: the display controller changes a display format, such as a color, of the jamming signal information in accordance with the jamming signal level, and causes the display unit to display the jamming signal



Art Unit: 2422

information in the display format is met by the bar graph 24 (col. 3, lines 9-52 of Gangitano).

In considering claim 7, the claimed wherein: the plurality of predetermined levels are able to be arbitrarily set and changed is met by the acceptable level for viewing may be preset or may be later programmed by a user (col. 4, lines 7-36 of Gangitano).

6. Claims 8-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Gangitano (US Patent No. 6,580,452 B1) in view of Ohgami et al. (US Publication No. 2003/0120742 A1).

Considering claim 8, Gangitano discloses all the limitations of the instant invention as discussed in claim 1 above, except for providing the claimed a wireless transmitting apparatus for wirelessly transmitting the video signal and a recognition information signal; and a display apparatus, which includes: a wireless receiving unit for receiving the video signal and the recognition information signal; a recognition information detecting unit detecting the recognition information signal. Ohgami et al teach that the video signals 21 transmitted from the home server 5 is input through the aerial portion 71 into the display device 6 in which it is first demodulated by the radio control portion 72 and transferred to the device recognizing/processing portion 721 for recognizing that the correct address of the display device 6 has been attached to the video signals (Fig. 11, page 8, paragraph #0157 to paragraph #0159). Therefore, it would have been obvious to one ordinary skill in the art at the time of the invention to

Art Unit: 2422

incorporate the signal recognizing as taught by Ohgami et al into Gangitano's system in order to capable to recognizing a plurality of the signal conversion devices.

In considering claim 9, the claimed wherein: the jamming signal detecting unit detects the jamming signal for each communication channel available in the operating frequency band; and the display controller causes the display unit to display, as the jamming signal information, information indicating the presence of the jamming signal for said each channel is met by the bar graph 24 which will be automatically displayed whenever the received signal strength falls bellows an acceptable level (Figs. 3-7, col. 3, line 20 to col. 5, line 46 of Gangitano).

In considering claim 10, Gangitano discloses all the claimed subject matter, note 1) the claimed wherein: the jamming signal detecting unit compares a level of the jamming signal with a predetermined level so as to detect a jamming signal level; and the display controller causes the display unit to display the jamming signal information in accordance with the jamming signal level is met by the bar graph 24 which will be automatically displayed whenever the received signal strength falls bellows an acceptable level (Figs. 3-7, col. 4, line 7 to col. 5, line 46). However, the combination of Gangitano and Ohgami et al explicitly does not disclose the claimed the jamming signal detecting unit compares a level of the jamming signal with a plurality of predetermined levels. The capability using of the jamming signal detecting unit compares a level of the jamming signal with a plurality of predetermined levels is old and well known in the art. Therefore, the Official Notice is taken. It would have been obvious to one ordinary skill in the art at the time of the invention to incorporate the old and well known using of the

Art Unit: 2422

jamming signal detecting unit compares a level of the jamming signal with a plurality of predetermined levels into the combination of Gangitano and Ohgami et al's system in order to accurately detecting a received signal strength of a signal received at an antenna.

In considering claim 11, the claimed wherein: the display controller causes the display unit to display the jamming signal information numerically in accordance with the jamming signal level is met by the bar graph 24 may be replaced by a display showing a number (col. 3, lines 40-52 of Gangitano).

In considering claim 12, the claimed wherein: the display controller causes the display unit to display the jamming signal information graphically in accordance with the jamming signal level is met by the bar graph 24 (col. 3, lines 9-52 of Gangitano).

In considering claim 13, the claimed wherein: the display controller changes a display format, such as a color, of the jamming signal information in accordance with the jamming signal level, and causes the display unit to display the jamming signal information in the display format is met by the bar graph 24 (col. 3, lines 9-52 of Gangitano).

In considering claim 14, the claimed wherein: the plurality of predetermined levels are able to be arbitrarily set and changed is met by the acceptable level for viewing may be preset or may be later programmed by a user (col. 4, lines 7-36 of Gangitano).

In considering claim 15, the claimed wherein: when the recognition information detecting unit detects another recognition information signal different from the

Art Unit: 2422

recognition information signal transmitted from the wireless transmitting apparatus, the display controller causes the display unit to display, as the abnormality information, information indicating that there is another wireless transmitting apparatus transmitting said another recognition information signal is met by the recognizing portion 631 (Figs. 3-4, page 4, paragraph #0072 to page 5, paragraph #0090 of Ohgami et al).

In considering claim 16, the claimed wherein: when the recognition information detecting unit does not detect said another recognition information signal different from the recognition information signal transmitted from the wireless transmitting apparatus, the jamming signal detecting unit carries out detection of the jamming signal is met by the signal strength detector 22 which detects the signal strength falls bellows an acceptable level (Figs. 3-7, col. 3, line 20 to col. 5, line 46 of Gangitano).

In considering claim 17, the claimed wherein: when the jamming signal detecting unit does not detect the jamming signal, the display controller causes the display unit to display, as the abnormality information, information indicating that it is not possible to receive any signal is met by the text message 26 which is display when the receiver 14 no longer detects any signals arriving from antenna 12 (Figs. 6c-7, col. 4, line 7 to col. 5, line 46 of Gangitano).

### ***Conclusion***

7. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 9:00 AM - 6:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jefferey F. Harold can be reached on (571) 272-7519. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2422

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

November 5, 2010

/Trang U. Tran/  
Primary Examiner, Art Unit 2622